

Table ES-1: Recent Trends in U.S. Greenhouse Gas Emissions and Sinks (Tg CO₂ Eq.)

Gas/Source	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
CO₂	4,998.5	4,943.2	5,045.9	5,157.3	5,261.0	5,305.9	5,483.7	5,568.0	5,575.1	5,665.5	5,840.0
Fossil Fuel Combustion	4,779.8	4,733.0	4,836.0	4,950.9	5,047.2	5,085.0	5,266.6	5,339.6	5,356.2	5,448.6	5,623.3
Iron and Steel Production	85.4	76.2	75.0	69.9	73.6	74.4	68.3	76.1	67.4	64.4	65.7
Cement Manufacture	33.3	32.5	32.8	34.6	36.1	36.8	37.1	38.3	39.2	40.0	41.1
Indirect CO ₂ from CH ₄ Oxidation	30.9	30.7	30.5	29.5	29.3	29.5	28.9	28.4	28.2	27.0	26.3
Waste Combustion	14.1	15.8	16.3	17.2	17.9	18.6	19.6	21.3	20.3	21.8	22.5
Ammonia Manufacture	18.5	18.7	19.5	18.7	19.5	18.9	19.5	19.5	20.1	18.9	18.0
Lime Manufacture	11.2	11.0	11.4	11.6	12.1	12.8	13.5	13.7	13.9	13.5	13.3
Limestone and Dolomite Use	5.2	5.0	4.5	4.1	5.2	7.0	7.4	8.4	8.2	9.1	9.2
Natural Gas Flaring	5.5	5.6	5.1	6.5	6.6	8.7	8.2	7.6	6.3	6.7	6.1
Aluminum Production	6.3	6.4	6.3	5.8	5.1	5.3	5.6	5.6	5.8	5.9	5.4
Soda Ash Manufacture and Consumption	4.1	4.0	4.1	4.0	4.0	4.3	4.2	4.4	4.3	4.2	4.2
Titanium Dioxide Production	1.3	1.3	1.5	1.6	1.7	1.7	1.7	1.8	1.8	1.9	2.0
Ferroalloys	2.0	2.0	2.0	2.0	1.8	1.9	2.0	2.0	2.0	2.0	1.7
Carbon Dioxide Consumption	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.3	1.4	1.6	1.4
Land-Use Change and Forestry (Sink) ^a	(1,097.7)	(1,085.6)	(1,091.1)	(1,113.8)	(1,117.8)	(1,110.0)	(1,108.1)	(887.5)	(885.9)	(896.4)	(902.5)
International Bunker Fuels ^b	113.9	119.9	109.9	99.8	98.0	101.0	102.3	109.9	112.9	105.3	100.2
CH₄	651.3	651.0	656.7	648.9	653.3	657.6	643.7	633.3	627.1	620.5	614.5
Landfills	213.4	213.2	215.8	217.8	217.8	216.6	211.5	206.4	201.0	203.1	203.5
Enteric Fermentation	127.9	127.2	130.2	128.5	130.1	133.2	129.6	126.8	124.9	124.5	123.9
Natural Gas Systems	121.2	122.7	124.5	129.0	127.3	125.7	126.6	122.7	122.2	118.6	116.4
Coal Mining	87.1	83.7	81.4	69.7	70.3	73.5	68.4	68.1	67.9	63.7	61.0
Manure Management	29.2	31.1	30.7	31.6	33.8	34.8	34.2	35.8	38.0	37.6	37.5
Wastewater Treatment	24.3	24.6	25.2	25.6	26.2	26.8	27.0	27.5	27.8	28.3	28.7
Petroleum Systems	26.4	26.8	25.9	25.0	24.6	24.2	24.0	24.0	23.4	22.3	21.9
Stationary Sources	7.9	8.0	8.3	7.8	7.8	8.2	8.4	7.5	7.0	7.3	7.5
Rice Cultivation	7.1	7.0	7.9	7.0	8.2	7.6	7.0	7.5	7.9	8.3	7.5
Mobile Sources	4.9	4.9	4.9	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.4
Petrochemical Production	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.6	1.6	1.7	1.7
Agricultural Residue Burning	0.7	0.6	0.8	0.6	0.8	0.7	0.7	0.8	0.8	0.8	0.8
Silicon Carbide Production	+	+	+	+	+	+	+	+	+	+	+
International Bunker Fuels ^b	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
N₂O	387.3	392.8	402.7	402.0	428.7	419.8	430.5	429.8	426.3	423.5	425.3
Agricultural Soil Management	267.1	270.1	278.0	273.0	295.1	283.4	292.6	297.5	298.4	296.3	297.6
Mobile Sources	50.9	53.2	56.4	58.5	60.0	60.4	60.1	59.7	59.1	58.7	58.3
Nitric Acid	17.8	17.8	18.3	18.6	19.6	19.9	20.7	21.2	20.9	20.1	19.8
Manure Management	16.0	16.5	16.3	16.7	16.7	16.4	16.8	17.1	17.1	17.1	17.5
Stationary Sources	12.8	12.7	12.9	13.1	13.4	13.5	14.1	14.2	14.3	14.6	14.9
Human Sewage	7.0	7.2	7.3	7.5	7.7	7.7	7.8	7.9	8.1	8.4	8.5
Adipic Acid	14.9	14.7	12.6	13.9	15.4	17.9	17.8	11.5	7.7	7.7	8.1
Agricultural Residue Burning	0.4	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.5	0.4	0.5
Waste Combustion	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
International Bunker Fuels ^b	1.0	1.0	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9
HFCs, PFCs, and SF₆	93.6	88.1	89.4	94.0	92.8	98.5	111.9	116.9	127.7	120.0	121.3
Substitution of Ozone Depleting Substances	0.9	0.8	1.5	5.2	8.4	21.8	30.6	38.0	44.9	51.3	57.8
HCFC-22 Production	35.0	30.8	34.9	31.8	31.6	27.0	31.1	30.0	40.2	30.4	29.8
Electrical Transmission and Distribution	31.2	32.5	30.2	34.1	31.4	26.5	26.8	24.5	20.1	15.5	14.4
Aluminum Production	18.1	15.7	14.5	13.9	12.2	11.8	12.5	11.0	9.0	8.9	7.9
Semiconductor Manufacture	2.9	2.9	2.9	3.6	3.9	5.9	5.4	6.5	7.3	7.7	7.4
Magnesium Production and Processing	5.5	5.5	5.5	5.4	5.2	5.5	5.5	6.9	6.2	6.1	4.0
Total	6,130.7	6,075.2	6,194.8	6,302.2	6,435.7	6,481.8	6,669.8	6,748.1	6,756.2	6,829.5	7,001.2
Net Emissions (Sources and Sinks)	5,033.0	4,989.6	5,103.6	5,188.4	5,317.9	5,371.8	5,561.7	5,860.5	5,870.3	5,933.1	6,098.7

^a Does not exceed 0.05 Tg CO₂ Eq.^a Sinks are only included in net emissions total, and are based partially on projected activity data. Parentheses indicate negative values (or sequestration).^b Emissions from International Bunker Fuels are not included in totals.

Note: Totals may not sum due to independent rounding.